

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P194609

Luminaire Tested: **GLEON-AF-01-LED-E1-SLL-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SLL-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3609 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

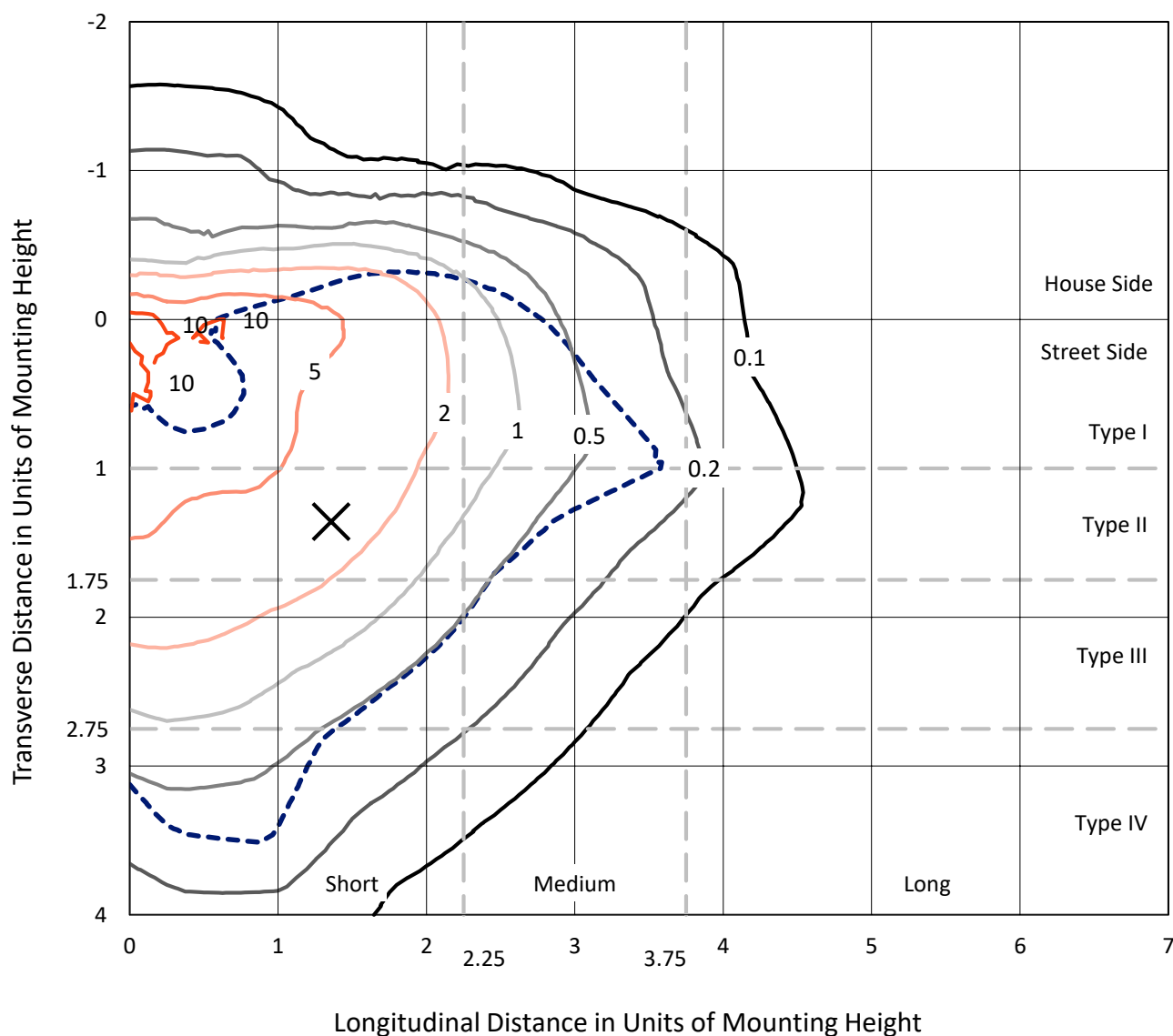


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

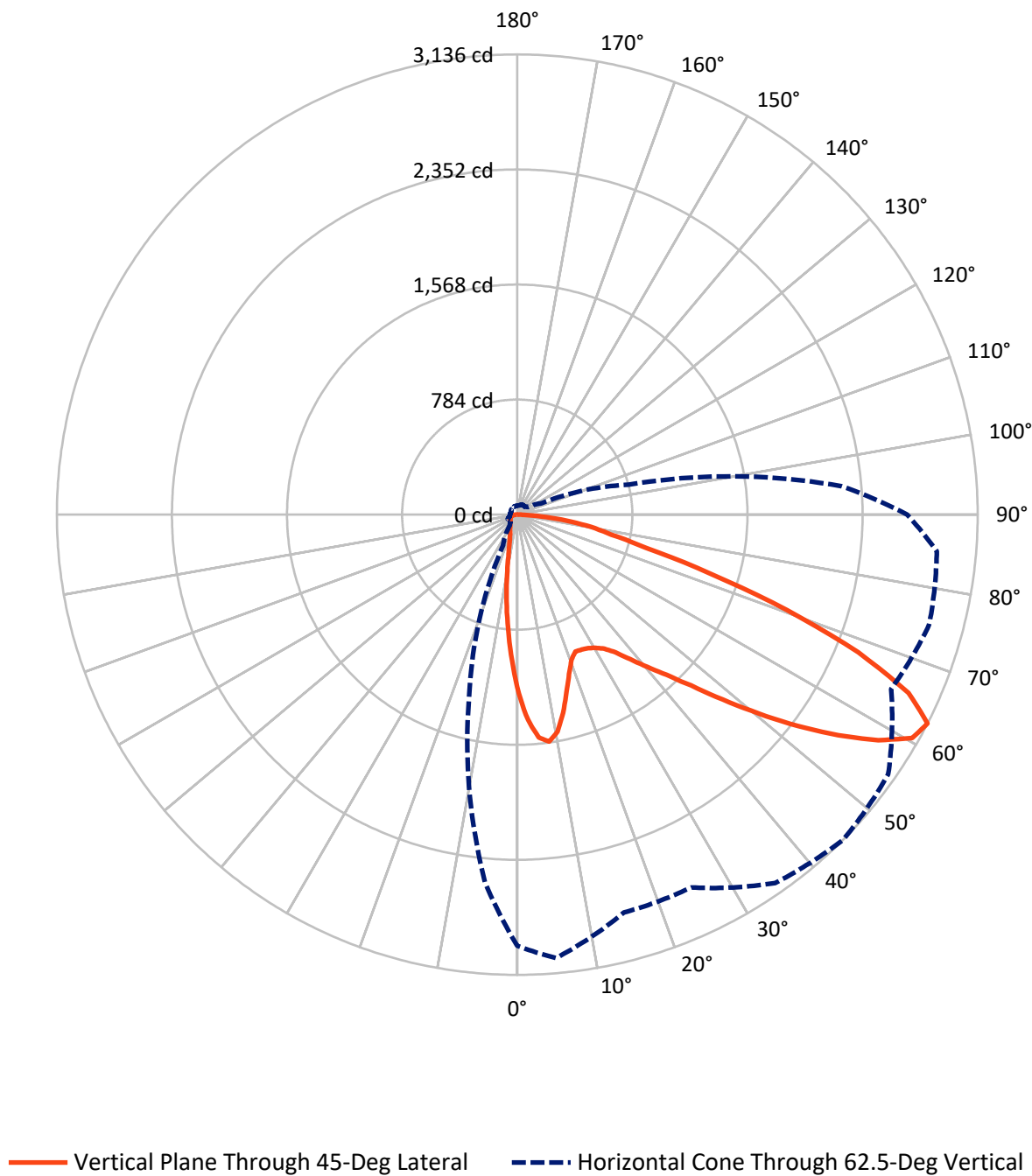


Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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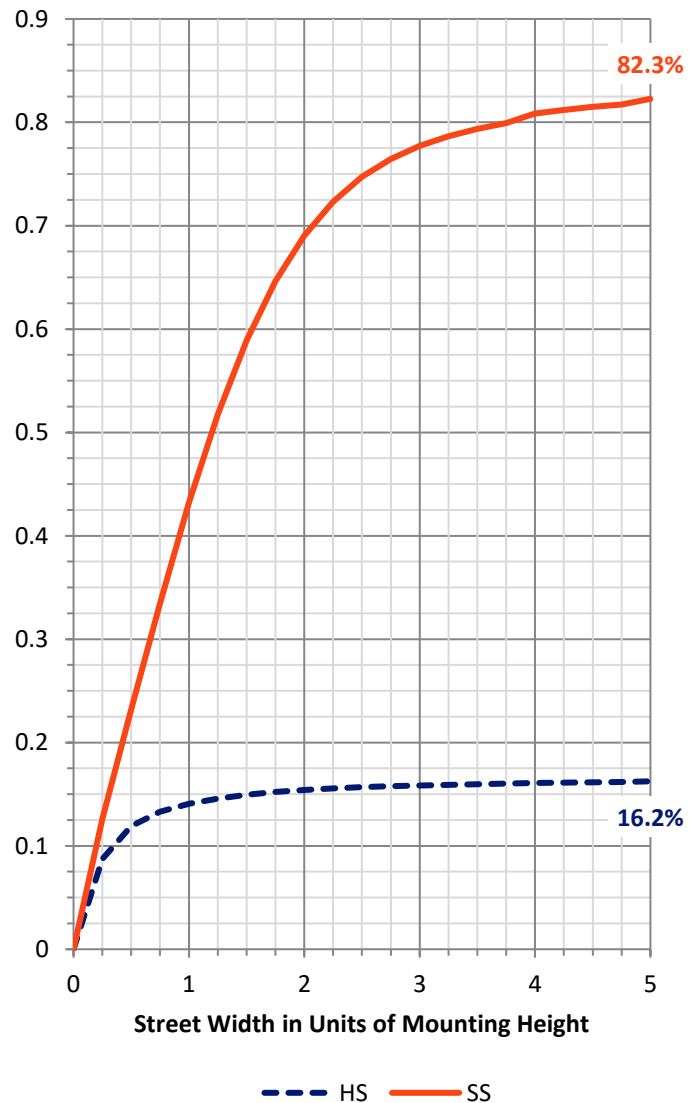
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	597.2	0.0	597.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3011.8	0.0	3011.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	3609.0	0.0	3609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	2.5
10°-20°	162.8	4.5
20°-30°	237.3	6.6
30°-40°	365.5	10.1
40°-50°	537.9	14.9
50°-60°	789.0	21.9
60°-70°	882.0	24.4
70°-80°	431.8	12.0
80°-90°	114.0	3.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3609.0	100.0
0°-180°	3609.0	100.0

Coefficient of Utilization



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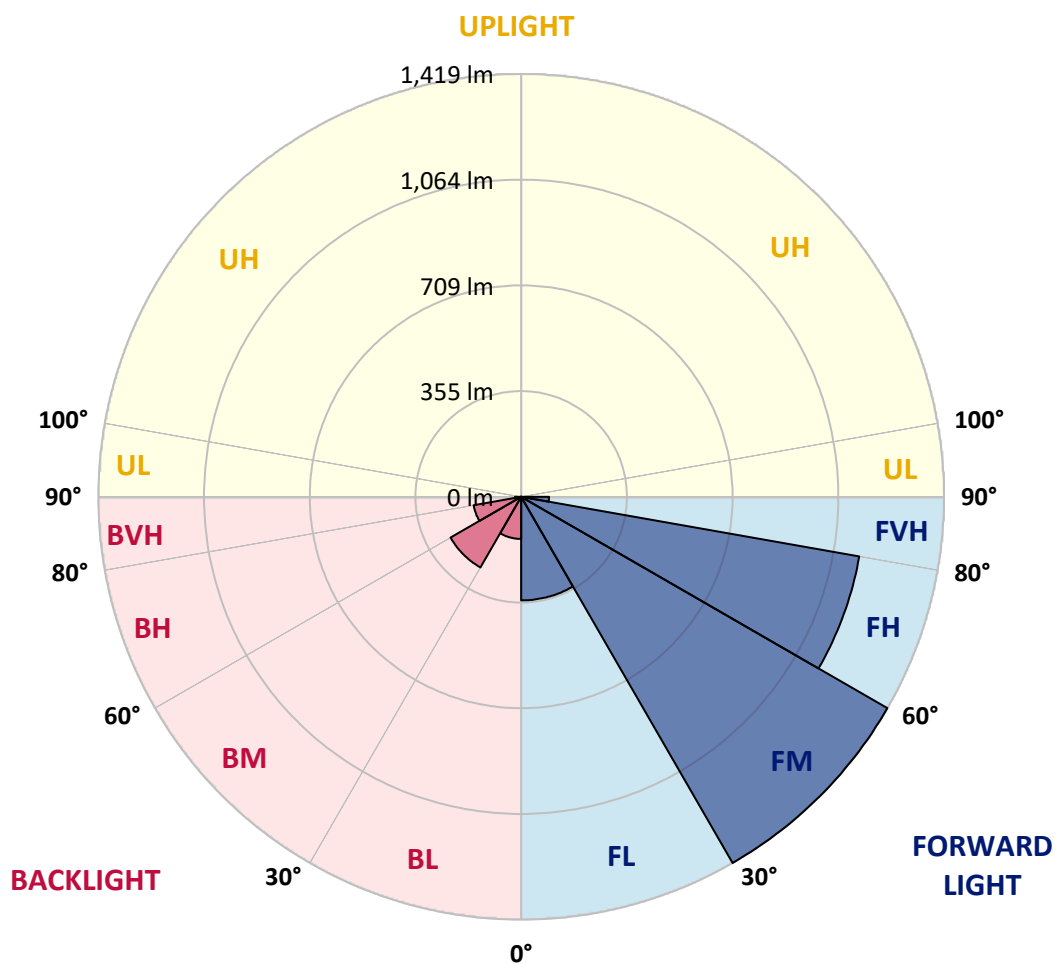
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLL-7060-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.5	9.6			
FM	(30°-60°)	1418.7	39.3			
FH	(60°-80°)	1151.9	31.9			G1/1800
FVH	(80°-90°)	93.6	2.6			G1/100
BL	(0°-30°)	141.3	3.9	B1/500		
BM	(30°-60°)	273.6	7.6	B1/1000		
BH	(60°-80°)	161.9	4.5	B1/500		G1/500
BVH	(80°-90°)	20.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3
2.5°	1266.9	1287.2	1326.6	1356.2	1392.1	1400.4	1412.0	1400.6	1380.6	1354.0	1345.3
5°	1191.3	1234.6	1330.4	1414.7	1489.7	1524.6	1534.4	1505.6	1447.5	1371.1	1324.5
7.5°	1070.1	1131.6	1261.4	1385.6	1496.1	1561.3	1559.8	1492.9	1386.0	1261.6	1186.8
10°	965.6	1035.8	1184.6	1323.5	1440.7	1504.0	1479.6	1394.1	1266.5	1123.3	1042.2
12.5°	907.0	975.9	1126.9	1266.3	1364.3	1386.2	1367.5	1283.8	1163.6	1018.7	947.7
15°	896.9	972.5	1103.9	1217.3	1272.3	1253.2	1231.0	1193.5	1108.6	985.0	911.0
17.5°	940.8	1024.1	1130.2	1183.2	1173.9	1140.8	1134.4	1138.6	1118.1	1022.5	937.2
20°	1024.9	1124.9	1193.1	1167.1	1099.1	1053.5	1055.0	1118.7	1179.2	1117.5	1020.1
22.5°	1142.9	1257.0	1283.8	1175.7	1067.5	1013.4	1026.5	1129.6	1276.6	1256.4	1132.0
25°	1295.7	1399.7	1380.4	1206.6	1070.7	1018.3	1028.9	1167.3	1391.7	1395.3	1270.5
27.5°	1443.7	1540.1	1461.6	1247.7	1083.8	1030.0	1043.9	1226.7	1501.6	1546.1	1428.8
30°	1559.2	1626.2	1493.7	1285.2	1109.6	1052.9	1070.1	1283.0	1551.6	1647.8	1550.6
32.5°	1654.8	1703.0	1544.9	1331.6	1157.0	1088.8	1119.1	1351.4	1623.6	1744.7	1669.9
35°	1777.0	1790.7	1608.6	1383.4	1230.2	1151.3	1189.0	1418.5	1692.3	1842.5	1787.3
37.5°	1920.2	1902.6	1668.7	1454.2	1324.9	1249.1	1280.2	1492.1	1748.8	1953.4	1907.3
40°	2061.9	2019.4	1744.1	1564.1	1462.9	1364.3	1401.2	1570.7	1801.6	2064.5	2024.6
42.5°	2182.3	2119.4	1818.5	1684.9	1591.5	1491.5	1535.6	1649.8	1852.0	2159.3	2126.4
45°	2271.4	2193.2	1889.3	1801.0	1768.7	1660.5	1681.4	1740.5	1906.5	2238.5	2210.1
47.5°	2350.9	2267.4	1969.4	1918.0	1923.6	1880.4	1846.8	1846.0	1970.8	2303.1	2289.2
50°	2457.5	2370.4	2055.5	2038.7	2156.1	2127.4	2053.4	1969.2	2052.2	2376.5	2374.9
52.5°	2604.3	2533.5	2160.7	2168.6	2373.2	2392.0	2300.4	2117.2	2179.5	2511.2	2501.7
55°	2777.9	2736.6	2303.9	2318.0	2639.4	2652.9	2561.8	2302.3	2366.8	2706.3	2679.9
57.5°	2913.4	2904.7	2461.0	2497.4	2838.2	2898.9	2815.2	2516.6	2577.9	2870.5	2804.3
60°	2967.3	3009.6	2628.3	2678.3	3022.1	3089.4	3015.9	2704.9	2765.0	2938.6	2795.7
62.5°	2938.2	3032.6	2806.4	2802.3	3063.2	3135.6	3084.0	2809.6	2903.7	2868.3	2654.3
65°	2803.5	2949.9	2909.8	2770.3	2922.7	2928.7	2912.0	2762.8	2936.4	2646.3	2380.9
67.5°	2510.1	2720.7	2773.7	2496.6	2543.8	2505.1	2477.1	2506.5	2765.8	2313.6	2001.0
70°	2044.4	2361.5	2386.8	1996.8	1975.4	1949.4	1893.6	2054.9	2429.1	1896.2	1587.7
72.5°	1503.2	1836.5	1914.5	1464.5	1365.3	1370.7	1326.6	1548.6	1975.0	1408.6	1185.4
75°	1028.5	1329.8	1497.9	1021.9	902.9	905.1	899.5	1097.3	1573.0	979.9	887.0
77.5°	751.3	950.1	1129.6	687.0	667.0	654.7	651.7	767.8	1206.0	711.4	688.8
80°	602.9	701.9	758.8	476.1	512.0	511.1	494.6	527.9	787.6	520.4	515.2
82.5°	418.2	539.4	614.8	373.2	345.6	339.8	343.8	393.2	556.7	355.7	338.3
85°	220.6	358.3	608.9	330.7	205.1	163.7	203.5	322.0	482.3	188.5	165.1
87.5°	28.2	103.6	403.1	131.9	80.9	43.6	96.6	181.3	309.7	38.5	33.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3
2.5°	1322.9	1296.5	1262.0	1230.0	1196.9	1164.0	1120.9	1093.9	1075.3	1071.7	1063.8
5°	1290.7	1203.0	1136.8	1079.4	1027.5	954.1	913.4	879.7	861.6	859.8	855.5
7.5°	1142.5	1021.5	932.0	850.9	777.3	718.0	652.5	622.0	609.5	612.4	615.4
10°	988.4	853.1	750.3	667.4	602.5	552.5	499.9	464.4	439.8	434.9	433.9
12.5°	875.7	727.3	627.5	569.0	518.8	471.8	416.0	374.2	342.2	331.3	324.0
15°	828.1	665.8	561.2	498.2	442.8	383.1	331.3	287.5	258.1	248.6	243.2
17.5°	838.2	648.7	515.6	434.9	364.0	301.8	236.5	199.0	181.3	176.8	176.8
20°	891.4	645.6	477.9	376.5	288.3	216.0	162.5	141.1	135.3	134.7	136.3
22.5°	966.0	656.7	449.8	326.0	224.0	157.7	126.6	118.6	116.1	116.7	118.4
25°	1077.1	694.2	429.3	280.9	175.8	129.2	112.9	108.1	106.9	108.5	110.7
27.5°	1208.8	731.7	416.6	247.0	148.4	118.0	107.3	102.4	103.2	105.1	107.1
30°	1324.5	762.4	396.6	222.8	139.9	118.6	107.3	100.6	99.8	100.2	100.8
32.5°	1428.2	783.2	373.2	199.8	120.6	105.3	100.2	99.2	94.8	93.2	93.4
35°	1517.7	783.2	359.1	186.3	108.1	93.4	85.1	80.2	78.0	78.2	80.3
37.5°	1604.0	767.6	352.1	178.8	101.4	88.9	81.5	77.2	74.2	73.6	74.0
40°	1680.2	744.8	344.2	175.6	96.2	86.1	79.2	75.6	72.4	71.4	71.6
42.5°	1741.3	726.3	335.5	171.4	93.0	84.1	77.6	74.4	70.8	69.8	69.6
45°	1807.3	720.2	324.0	163.1	94.6	84.3	77.2	73.8	70.2	69.0	68.6
47.5°	1894.4	739.4	312.1	153.2	98.0	85.3	77.8	73.8	70.0	69.0	68.6
50°	2004.2	784.6	297.0	138.7	94.6	88.1	77.6	73.2	70.0	69.0	68.2
52.5°	2145.0	845.7	277.2	122.0	92.6	94.8	77.2	72.0	69.0	67.7	66.3
55°	2316.2	895.7	253.5	108.3	88.1	93.0	76.6	70.6	67.5	65.5	64.3
57.5°	2441.6	913.8	223.2	99.4	81.7	90.1	75.8	68.8	65.5	63.9	62.3
60°	2416.8	878.9	197.6	93.8	78.0	81.3	75.2	67.3	63.7	62.5	61.1
62.5°	2218.2	787.6	181.1	91.3	75.6	74.2	75.8	65.7	62.1	60.9	60.5
65°	1920.4	652.9	174.6	90.7	73.6	70.0	70.4	63.9	60.3	59.3	58.9
67.5°	1584.2	526.9	168.8	92.6	71.0	67.1	65.1	61.5	58.5	57.5	56.7
70°	1249.3	438.2	166.3	91.5	67.8	64.1	61.9	58.9	56.3	55.4	54.8
72.5°	1006.0	370.2	164.9	90.3	63.7	60.1	58.1	55.5	52.8	52.4	51.8
75°	851.3	291.0	151.0	86.5	58.9	55.4	54.0	51.6	48.8	48.8	48.4
77.5°	656.7	210.5	125.6	76.6	54.0	50.0	48.8	47.0	43.8	44.4	44.2
80°	485.1	137.3	98.2	63.5	47.8	44.0	43.4	41.7	38.3	39.1	39.1
82.5°	332.3	90.1	70.6	52.0	40.9	37.3	37.3	35.5	31.7	32.1	33.3
85°	166.8	61.9	52.8	40.3	31.7	30.0	30.0	28.6	24.8	25.0	26.6
87.5°	50.8	37.3	34.9	28.8	22.8	22.4	21.4	20.4	18.1	17.9	18.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3
2.5°	1051.7	1040.4	1026.7	996.5	986.4	985.8	994.9	985.4	1003.7	995.9	1004.5
5°	848.1	837.0	821.7	783.2	759.8	744.0	736.4	714.2	730.3	718.6	728.3
7.5°	623.7	626.3	616.2	593.6	542.6	517.0	501.9	488.4	500.1	499.0	517.6
10°	438.4	445.4	438.2	415.4	374.2	360.1	362.9	368.2	383.5	391.4	420.2
12.5°	315.6	315.2	310.7	290.2	263.1	264.7	276.0	285.3	299.4	307.7	337.1
15°	235.7	232.1	230.1	213.5	198.0	201.4	206.9	207.9	216.8	221.8	245.6
17.5°	178.2	179.9	182.1	170.2	158.5	156.3	152.0	146.6	149.2	150.2	162.1
20°	141.5	148.6	154.0	145.6	133.7	127.4	121.8	118.2	118.2	118.0	121.4
22.5°	123.6	128.8	134.5	128.8	118.0	112.5	109.3	106.5	106.1	106.1	109.3
25°	113.9	117.6	123.2	119.2	111.3	107.1	104.2	100.6	99.2	98.8	101.0
27.5°	109.1	110.7	113.5	109.9	103.2	101.2	100.4	97.2	95.4	94.4	96.6
30°	101.0	100.6	100.8	97.2	91.9	91.7	93.0	93.6	93.0	92.8	96.2
32.5°	93.4	92.6	92.5	89.3	84.3	83.1	84.3	85.5	86.9	88.9	92.8
35°	83.9	85.9	87.1	84.3	78.4	74.8	73.4	71.2	70.0	70.0	74.6
37.5°	76.4	80.9	82.7	80.2	73.6	68.6	66.3	65.9	66.1	66.9	71.2
40°	73.8	77.2	78.8	76.2	69.6	65.1	63.7	63.3	63.7	64.9	69.2
42.5°	72.2	74.6	74.4	71.2	65.9	62.7	61.9	61.5	61.9	63.1	67.8
45°	70.8	72.4	70.8	67.1	62.1	60.5	60.7	60.5	60.9	62.1	66.7
47.5°	69.6	70.2	68.2	64.5	59.3	58.9	59.7	60.3	60.7	61.7	66.5
50°	67.8	67.8	66.1	62.1	56.9	57.1	58.1	59.5	59.7	60.9	64.7
52.5°	65.7	65.5	64.3	60.5	55.0	55.5	55.5	57.1	57.5	58.9	62.9
55°	63.9	63.5	62.9	59.3	53.2	54.2	53.6	54.2	55.2	56.5	60.9
57.5°	62.3	61.5	61.5	58.3	51.8	52.2	50.8	51.6	52.8	54.0	58.5
60°	60.7	59.9	60.3	56.9	49.6	49.2	48.6	50.2	50.6	52.0	56.5
62.5°	58.9	58.3	58.5	55.4	48.0	47.0	47.0	48.4	48.6	50.6	55.0
65°	57.5	56.7	56.5	53.8	46.2	45.0	45.6	46.2	46.6	48.6	52.8
67.5°	56.1	54.6	54.6	52.4	44.2	43.1	44.2	44.0	44.6	46.4	49.8
70°	54.4	52.2	52.4	51.4	42.3	40.9	41.9	41.7	42.1	43.2	46.6
72.5°	51.6	49.8	50.2	49.8	40.3	38.3	38.7	38.7	38.7	39.7	43.2
75°	48.0	46.6	47.8	48.8	37.9	35.1	35.5	35.5	34.9	35.5	39.9
77.5°	43.6	42.9	46.8	45.4	35.1	31.7	31.7	31.3	30.2	30.9	35.7
80°	38.9	38.3	43.2	38.1	31.9	27.6	27.2	26.2	25.0	25.6	30.4
82.5°	33.9	33.3	36.3	29.2	27.6	22.8	21.8	20.0	18.8	19.4	23.8
85°	27.8	27.8	28.0	22.0	21.0	17.5	16.3	13.9	12.5	12.9	17.1
87.5°	19.8	20.4	18.8	15.1	12.5	9.7	8.9	7.5	6.3	7.3	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3
2.5°	1048.1	1069.9	1094.7	1126.5	1153.6	1198.3	1241.1	1266.9
5°	783.6	820.0	865.2	923.3	977.5	1058.8	1139.6	1191.3
7.5°	560.9	599.7	648.5	721.2	797.7	901.5	1008.2	1070.1
10°	464.0	503.9	545.0	594.0	656.7	769.6	895.7	965.6
12.5°	383.9	426.5	470.8	522.4	580.5	681.3	826.7	907.0
15°	293.8	341.4	393.6	458.9	531.7	648.1	809.6	896.9
17.5°	201.4	254.5	318.6	399.2	488.2	637.4	840.2	940.8
20°	138.7	177.4	245.8	340.2	447.4	636.0	898.9	1024.9
22.5°	116.1	133.3	183.3	286.1	416.6	653.1	990.0	1142.9
25°	107.3	117.6	146.4	239.1	394.2	692.4	1115.4	1295.7
27.5°	102.2	111.5	132.9	208.3	376.5	738.0	1237.4	1443.7
30°	104.2	113.7	129.2	192.6	352.5	776.1	1345.7	1559.2
32.5°	93.8	98.0	110.7	178.8	335.3	808.0	1440.5	1654.8
35°	80.0	87.3	98.8	172.2	335.7	829.5	1543.9	1777.0
37.5°	76.2	83.5	91.9	169.8	340.2	852.3	1662.5	1920.2
40°	73.8	80.5	87.7	168.4	344.6	873.1	1778.8	2061.9
42.5°	72.2	78.4	87.3	163.7	346.8	891.8	1874.4	2182.3
45°	72.0	78.4	88.9	158.9	350.2	911.8	1954.6	2271.4
47.5°	72.2	80.9	85.9	153.2	350.2	945.3	2048.6	2350.9
50°	71.4	85.3	82.7	145.0	342.0	1008.8	2177.5	2457.5
52.5°	71.0	84.7	76.6	132.5	327.9	1109.6	2342.8	2604.3
55°	70.0	81.7	72.2	113.9	311.5	1219.5	2519.8	2777.9
57.5°	69.0	72.4	69.8	97.6	286.1	1296.9	2641.6	2913.4
60°	77.4	63.3	67.8	89.7	252.2	1318.1	2636.8	2967.3
62.5°	71.6	59.3	65.3	87.9	228.3	1258.6	2515.0	2938.2
65°	56.1	56.7	62.7	93.0	222.0	1100.9	2299.2	2803.5
67.5°	51.4	54.2	60.1	99.6	222.6	881.5	1976.6	2510.1
70°	48.4	51.4	57.1	103.0	224.2	657.1	1562.7	2044.4
72.5°	45.0	47.6	53.8	103.6	213.9	477.3	1204.4	1503.2
75°	41.1	43.4	49.0	90.3	177.2	331.1	921.3	1028.5
77.5°	36.5	38.3	43.1	69.6	131.5	211.9	691.6	751.3
80°	31.1	32.1	36.1	51.0	90.1	132.5	547.2	602.9
82.5°	25.0	25.4	28.0	38.3	58.5	85.1	366.4	418.2
85°	17.7	17.7	19.2	27.8	39.9	54.0	199.0	220.6
87.5°	8.3	8.5	8.5	15.3	20.8	27.4	45.8	28.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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